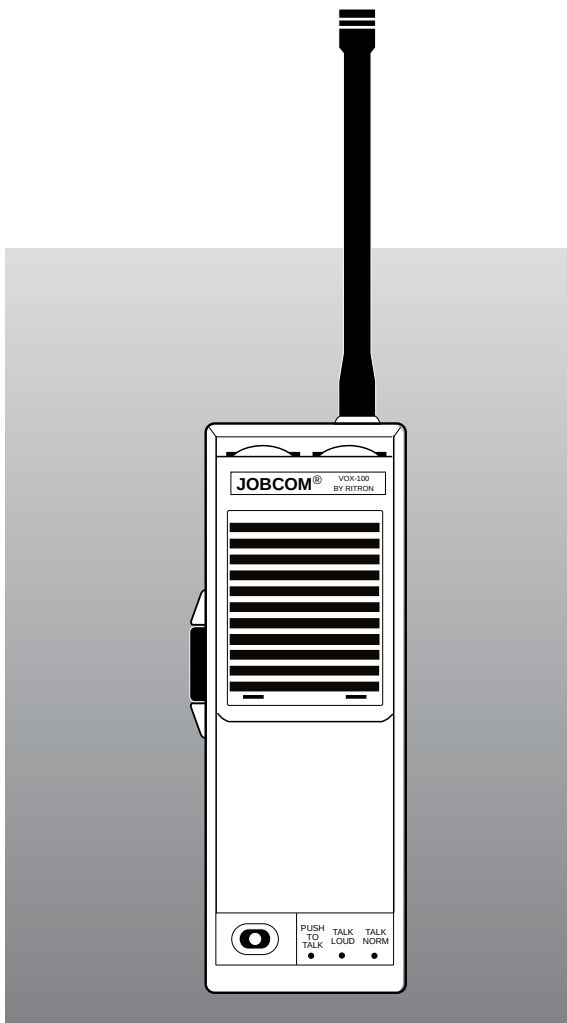


JOBCOM VOX

The Leader In Jobsite Radios



RT-15H USER MANUAL

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RITRON, INC.®

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HOW TO OBTAIN AN FCC RADIO LICENSE

BEFORE OPERATING YOUR RADIOS, YOU MUST OBTAIN AN FCC RADIO LICENSE. JOBCOM radios are approved by the FCC (Federal Communications Commission), and operate on FM radio frequencies in the BRS (Business Radio Service).

To qualify for a license, you must be involved in a commercial activity. If you have purchased JOBCOM radios that operate on an ITINERANT frequency (Red Dot), your business must cover at least a statewide area of operation and operate at no fixed location.

Use the following instructions to obtain an FCC license for your JOBCOM radios:

NOTE: FOR RED DOT PATRIOT RADIOS, COMPLETE 1, 2 & 3; OMIT 4, 5 & 6.

FOR ALL OTHER COLOR DOT OR COLOR STAR RADIOS, COMPLETE 4, 5 & 6; SKIP 1, 2 & 3.

FOR RED COLOR DOT JOBCOM RADIOS:

1. Call the FCC National Call Center at 1-800-418-3676 to obtain Application Form 600.
2. Complete FCC Form 600 per its companion instruction book. Call FCC Consumer Assistance at 1-888-225-5322 for help completing the form.
3. Mail the following to FCC:
 - a. Completed Business Radio License Form 600, and
 - b. FCC filing fee – check payable to the FCC★.

FCC Business Radio Service
P.O. Box 358220
Pittsburgh, PA 15251-5220

FOR ALL COLOR DOT AND STAR JOBCOM RADIOS EXCEPT RED DOT:

4. Call PCIA (Personal Communications Industry Association), the FCC-appointed coordinator of Business Frequencies, at 1-800-759-0300, to obtain the Coordination Supplemental Form. When you receive the form, complete it per the included instructions.
5. PCIA will also send FCC Application Form 600; complete it per the companion instruction book. Call FCC Consumer Assistance at 1-888-225-5322 if you need assistance completing FCC Form 600.
6. Mail the following to PCIA:
 - a. Completed PCIA Supplemental Form, and
 - b. PCIA coordination fee – check payable to PCIA★, and
 - c. Completed Business Radio License Form 600, and
 - d. FCC filing fee – check payable to the FCC★.

PCIA Coordination Services
P.O. Box 25648
Alexandria, VA 22314-5648

*** Contact the referenced agency to confirm fee charges.**

The FCC will mail your license to you approximately four to six weeks after receipt of the application.

TO CHECK ON THE STATUS OF YOUR PENDING LICENSE, call the FCC Consumer Assistance Line at 1-888-225-5322 and request an update of your pending Business Radio license. You will need to provide the name filed on Application Form 600.

OPERATING PRECAUTIONS

TAKE PRECAUTIONS IN THE FOLLOWING ENVIRONMENTS TO MAXIMIZE THE LIFE OF YOUR ELECTRONIC RADIO EQUIPMENT.

MOISTURE:

JOBCOM radios are not waterproof; DO NOT directly expose them to rain or excessive moisture.

EXTREME HEAT:

High temperatures can damage the battery and other components. DO NOT expose the units to extreme heat or leave them in direct sunlight.

LOW TEMPERATURES:

The capacity of the Ni-Cad battery is greatly reduced in extreme cold. When using the unit in very cold environments, periodically warm the radio beneath your coat.

EXCESSIVE TRANSMISSIONS:

Maximum drain on battery power occurs when you are transmitting. DO NOT hold the Push-To-Talk switch down longer than necessary during transmission intervals.

NOTE: DO NOT reduce battery service life by attempting to power a radio with a depleted battery; always charge batteries overnight after each day of use.

VIBRATION/ SHOCKS:

Although your JOBCOM radio is designed to be rugged, it will not survive excessive abuse. Avoid dropping the radio.

NOTE: The optional MH-A holster provides added protection from shocks and weather.

GENERAL INFORMATION

The RITRON JOBCOM VOX is a rugged handheld radio designed specifically for business and industry, and operates in the VHF-FM communications band.

Using an appropriate RITRON headset, the radio may be left in its holster while operated, leaving the user's hands free. Speaking into the headset microphone automatically activates the portable's transmitter when "Hands-Free" (VOX) mode is selected.

Your JOBCOM handheld is equipped for two-way communications on one channel, and features provision for optional accessories.

Each JOBCOM VOX is packaged with a flexible antenna, plug-in battery charger, rechargeable Ni-Cad battery pack and RHD-10 boom microphone headset.

IMPORTANT: The battery pack can lose its charge during storage and shipment, and should be fully charged before the radio is used.

Since the JOBCOM portable transmits on communications frequencies authorized by the Federal Communications Commission (FCC), your radio(s) must be licensed before being used. Refer to licensing information in this guide.

Each JOBCOM VOX portable is manufactured with one of three specific channels installed. A "color dot" label placed on the radio case indicates the operating frequency (channel) of the unit:

151.625 MHz	Red dot
154.570 MHz	Blue dot
154.600 MHz	Green dot

OPERATING CONTROLS

JOBCOM VOX operating controls and features are described below and on the following pages. The circled numbers that begin each section correspond to the numbers shown in FIG-1.

① ANTENNA

Your portable transmits and receives radio signals through the flexible antenna provided. Screw the antenna base all the way into the threaded bushing on top of the radio.

The position of the radio can affect its transmit range. Sometimes moving just a few feet in one direction produces improves transmission.

② ANTENNA JACK

This jack connects to an optional external antenna to increase the handheld's range. Plugging in an external antenna disconnects the flexible antenna.

③ ON-OFF/ VOLUME CONTROL

To turn the unit ON, rotate the knob clockwise until the switch "clicks." Further rotation increases volume. Turn the knob counter-clockwise into the OFF position while charging the battery, or when the radio is NOT in use.

④ PUSH-TO-TALK SWITCH (PTT)

Pressing the PTT button activates the transmitter (independent of the headset control switch or accessories), the PTT must be held down during the entire transmission. Release the PTT to receive.

⑤ SPEAKER/ MICROPHONE

The speaker functions as a speaker when the radio receives a signal and as a microphone when the radio transmits.

While transmitting, hold the radio speaker one to two inches away and speak in a normal voice - do not shout.

OPERATING CONTROLS (continued)

6 SQUELCH CONTROL

The squelch control knob can be adjusted to eliminate NOISE when there is NO incoming signal. Rotate the squelch control knob clockwise until you hear noise, then set squelch by rotating the knob counterclockwise until noise disappears.

Optional privacy module - If your JOBCOM portable is equipped with an optional Quiet-Call or Paging Quiet-Call module, activate the privacy feature by rotating the radio's squelch control knob counterclockwise until the switch clicks. To turn OFF "privacy" operation, rotate the squelch control clockwise out of the click position.

For an explanation of Quiet-Call, see the PRIVACY MODULE SECTION, page 6.

7 CHARGER JACK

When the battery needs charging, switch OFF the radio. Insert the charger cord plug into the jack labeled CHG at the top of the radio. Then plug the charger cube into a 110 VAC outlet. The green LED on the cube lights to indicate that the battery pack is charging, and should go OFF only when the charger is unplugged. The battery should charge completely in about eight hours.

Typical service life of a battery pack is one year. To ensure maximum battery service life, follow these guidelines:

- DO NOT discharge a battery that is already "run down." If the battery cannot power your radio, recharge it.
- DO NOT overcharge a battery. The battery should not be charged for more than 24 hours at a time.
- CHARGE THE BATTERY FOR 16 HOURS before storing it. Thereafter, charge the battery for 16 hours once every 30 days.

At the end of a battery's service life, the pack loses its ability to hold a charge, and will not operate the radio for long. Try charging the pack continuously for 24 hours. If the battery still fails, replace it.

CAUTION: Use only RITRON-supplied chargers! Other chargers might cause fire, explosion, or other damage to the radio.

8 BATTERY PACK CONNECTOR

The battery pack (RITRON Model BP-5NM) plugs into the three-pin polarized connector on the JOBCOM VOX PC board.

9 AUDIO JACK

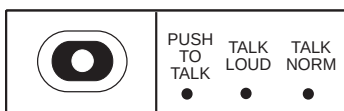
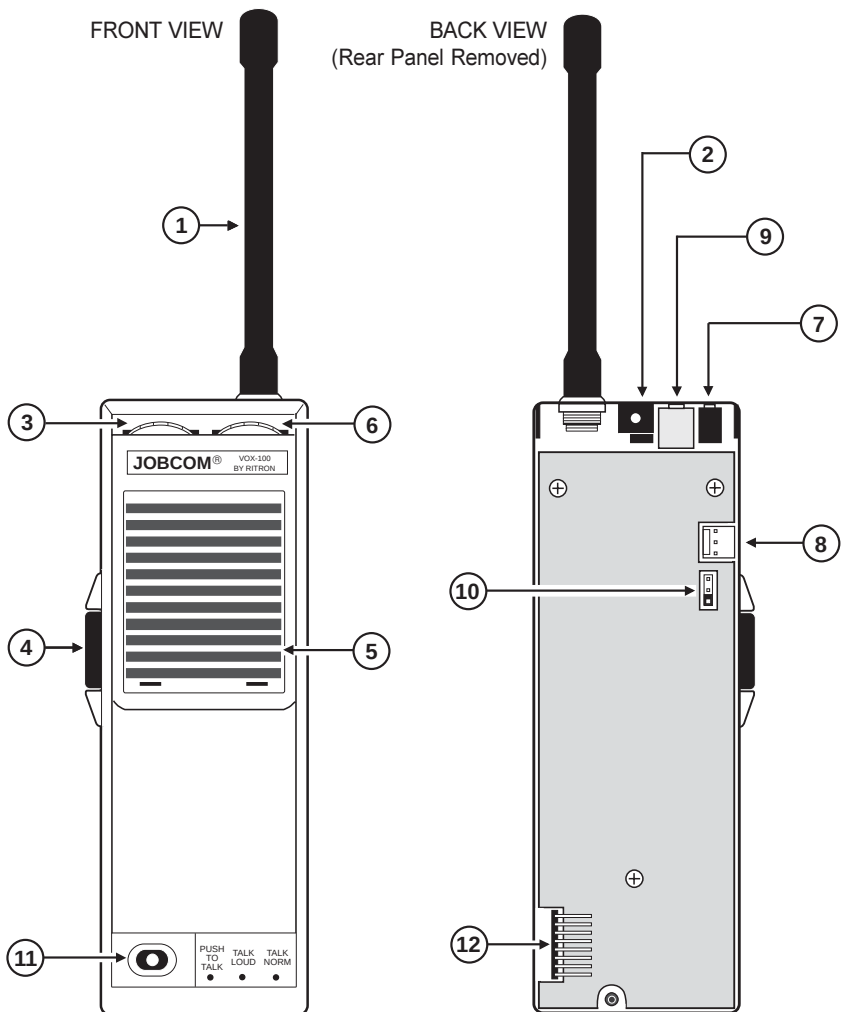
The JOBCOM VOX audio jack may be used for a plug-in headset OR an optional remote speaker/microphone.

IMPORTANT: Before using a headset or remote speaker/ microphone, read the audio accessory jumper section below.

HEADSET - Inserting a headset plug into the audio jack disconnects the internal speaker/ microphone. Be sure the squelch control knob is set to eliminate noise (as explained in squelch control), and that no one is transmitting on your channel. Place the headset control switch in either the TALK LOUD or TALK NORM position, and speak into the boom microphone of the headset. Your JOBCOM VOX then transmits automatically.

NOTE: THE VOX CIRCUITRY WILL NOT ACTIVATE THE TRANSMITTER IF:

- 1) the handheld is receiving a signal on your channel, or
- 2) the squelch control is NOT rotated far enough counterclockwise to eliminate noise, or
- 3) the headset is unplugged.



Enlarged View of
Headset Control Switch

- 1 ANTENNA
- 2 ANTENNA JACK
- 3 ON-OFF/VOLUME CONTROL
- 4 PUSH-TO-TALK SWITCH
- 5 SPEAKER/ MICROPHONE
- 6 SQUELCH CONTROL
- 7 CHARGER JACK
- 8 BATTERY PACK CONNECTOR
- 9 AUDIO JACK
- 10 AUDIO ACCESSORY JUMPER
- 11 HEADSET CONTROL SWITCH
- 12 PRIVACY MODULE CONNECTOR

FIG-1: JOBCOM VOX CONTROLS

OPERATING CONTROLS (continued)

With the portable in "Hands-Free" mode (headset plugged in, control switch set to TALK LOUD or TALK NORM), the user's transmission is heard in his headset earpiece as "sidetone" audio. This assures the radio operator that his voice is "keying" the transmitter.

Sidetone also alerts the user when background noise is so loud that it keeps the transmitter activated. When this happens, move the headset control switch to the TALK LOUD position.

REMOTE SPEAKER/ MICROPHONE -

Plugging-in a remote speaker/microphone (model RSM-23) disables the radio's internal speaker/microphone. To transmit using the RSM-23, press and hold the remote's PTT button and talk into the microphone.

10 AUDIO ACCESSORY JUMPER

The audio accessory program jumper may be positioned to select operation with one of these:

- 1) a headset, or
- 2) a remote speaker/microphone.

IMPORTANT: Before using a headset or remote speaker/ microphone, determine which device the radio is set to operate with. Your JOBCOM VOX comes from the factory programmed for use with a headset.

To access the program jumper, which is located on the radio PC board, remove the Phillips head screws from the back of the radio.

POSITION THE PROGRAM JUMPER FOR THE ACCESSORY YOU WILL USE, AS SHOWN IN FIG-2. Re-assemble the radio case and then insert the accessory plug into the AUDIO jack.



CAUTION: With the radio programmed for operation with the remote speaker/ microphone, inserting the headset plug into the AUDIO jack "keys" the transmitter. Use only the audio accessory selected with the program jumper.

11 HEADSET CONTROL SWITCH

This switch has three positions: PUSH TO TALK, TALK LOUD and TALK NORM. To activate the transmitter with this switch in the PUSH TO TALK (PTT) position, press and hold the PTT button.

With the headset control switch in either TALK LOUD or TALK NORM, reception and transmission take place through the headset and its boom microphone. The TALK LOUD switch position is for use in noisy environments, such as in factories or at construction sites, and prevents excessive noise "pick-up" by the microphone. To transmit, speak LOUDER than usual into the headset microphone. The TALK NORM switch position is intended for use in "low noise" areas, such as in offices or warehouses. To transmit, speak into the headset microphone in a NORMAL tone of voice.

The headset control switch does not affect radio operation when the headset is not connected.

12 PRIVACY MODULE CONNECTOR

The Quiet-Call (QC) module plugs into the radio's eight-pin connector.

PRIVACY MODULE OPTION

An optional QC module (RTS-2P) can be installed in the JOBCOM VOX for use in locations where an operating channel must be shared with other users. With QC activated, your radio communicates only with other "privacy" equipped units that are programmed with the same specially coded signal, screening out interference from other users on your channel.

OPERATING CONTROLS

(continued)

QUIET-CALL (QC)

To be heard by other QC users having units with QC activated, an outgoing call must carry the same code programmed for the "receiving" handhelds. Any radio not transmitting the proper code WILL NOT be heard.

NOTES: To prevent interfering with others using your channel, turn QC OFF by rotating the squelch control clockwise, and monitor the channel before you transmit. (With QC turned OFF, you will hear all activity on the channel.)

Only units operating on the same frequency – indicated on all JOBCOM portables with a color dot – can communicate with each other.

Units equipped with QC can communicate only with units programmed with the same code, unless QC is turned OFF.

ACCESSORIES

Replacement Battery Pack	BP-5NM
3" Molded Flex Antenna	AFM-150-S
6" Molded Flex Antenna	AFM-150-Y
Remote Speaker/ Microphone ..	RSM-23
Single Ear Headset	KHM-7603C (Std.)
Dual Ear Headset	RHD-24
Quiet-Call Module	RTS-2P
Belt Clip	CB-A
Holster w/ Quick Release	MH-A

RITRON, INC. LIMITED WARRANTY

WHAT THIS WARRANTY COVERS

RITRON, INC. ("RITRON") provides the following warranty against defects in materials and/ or workmanship in **RITRON JOBCOM Radios, Rechargeable Batteries and Accessories** under normal use and service during the applicable warranty period, as stated below. "Accessories" means antennas, chargers, headsets, earphones, speakers, holsters and microphones. Rechargeable batteries will be replaced during the applicable warranty period only if leakage occurs or the batteries drop below 75% of rated capacity.

WHAT IS COVERED

RITRON JOBCOM
Radios

FOR HOW LONG

1 year parts *
1 year labor *

WHAT RITRON WILL DO

During the first year after purchase, RITRON will refund your purchase price or repair or replace the defective product, at RITRON's option, parts and labor included at no charge to you.

RITRON JOBCOM
Rechargeable Batteries

1 year parts *

RITRON will replace the defective battery.

RITRON JOBCOM
Accessories

90 days *

RITRON will repair or replace the defective accessory, at RITRON's option, parts and labor included at no charge to you.

* After date of purchase

WHAT THIS WARRANTY DOES NOT COVER

This warranty statement does not cover:

- Any technical information provided with the covered product or any other RITRON products;
- Installation, maintenance or service of the product, unless this is covered by a separate written agreement with RITRON;
- Any products not furnished by RITRON which are attached or used with the covered product, or defects or damage from the use of the covered product with equipment that is not covered, such as defects or damage from the charging or use of batteries other than with covered product;
- Defects or damage, including broken antennas, resulting from:
 - misuse, abuse, improper maintenance, alteration, modification, neglect, accident or act of God,
 - the use of covered products other than in normal and customary manner, or
 - improper testing or installation;
- Defects or damages from unauthorized disassembly, repair or modification, or where unauthorized disassembly, repair or modification prevents inspection and testing necessary to validate warranty claims;
- Defects or damages in which the serial number has been removed, altered or defaced.
- Batteries if any of the seals are not intact.

IMPORTANT: This warranty sets forth the full extent of RITRON's express responsibilities regarding the covered products, and is given in lieu of all other express warranties. What RITRON has agreed to do above is your sole and exclusive remedy. No person is authorized to make any other warranty to you on behalf of RITRON. Warranties implied by state law, such as implied warranties of merchantability and fitness for a particular purpose, are limited to the duration of this limited warranty as it applies to the covered product. Incidental and consequential damages are not recoverable under this warranty; this includes loss of use or time, inconvenience, business interruption, commercial loss, lost profits or savings. **Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. Because each covered product system is unique, RITRON disclaims liability for range, coverage, or operation of the system as a whole under this warranty.**

WHO IS COVERED BY THIS WARRANTY

This warranty is given only to the purchaser or lessee of covered products when acquired for use, not resale. This warranty is not assignable or transferable.

HOW TO GET WARRANTY SERVICE

To receive warranty service, you **MUST** deliver or send the defective product, delivery costs and insurance prepaid, within the applicable warranty period, to RITRON, INC., 505 West Carmel Drive, Carmel, Indiana 46032, Attention: Warranty Department. Please point out the nature of the defect in as much detail as you can. You **MUST** retain your sales or lease receipt (or other written evidence of the date of purchase) and deliver it along with the product. If RITRON chooses to repair or replace a defective product, RITRON may replace the product or any part or component with reconditioned product, parts or components. Replacements are covered for the balance

of the original applicable warranty period. All replaced covered products, parts or components become RITRON's property.

RIGHTS TO SOFTWARE RETAINED

Title and all rights or licenses to patents, copyrights, trademarks and trade secrets in any RITRON software contained in covered products are and shall remain in RITRON. RITRON nevertheless grants you a limited non-exclusive, transferable right to use the RITRON software only in conjunction with covered products. No other license or right to the RITRON software is granted or permitted.

YOUR RIGHTS UNDER STATE LAW

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

WHERE THIS WARRANTY IS VALID

This warranty is valid only within the United States, the District of Columbia and Puerto Rico.



JOBCOM[®]

VOX (RT-15H)
The Leader In Jobsite Radios

WARRANTY REGISTRATION

*FAX the completed form to RITRON at 800-251-R-FAX (800-251-7329),
or (local FAX) to 317-846-4978, OR mail it as pre-addressed on the back.*

Company Name _____ Contact Name _____
Street Address _____
City _____ State _____ Zip _____
Phone Number ____ - ____ - ____ Model Number _____
FAX Number ____ - ____ - ____ Serial Number(s) _____
e-mail _____ Date of Purchase _____
Dealer _____ Purchase Price _____

YOUR APPLICATION:

____ Construction	____ Nursery	____ Retail
____ Electrical Contractor	____ Warehouse	____ Hardware
____ Sound/Security	____ School	
____ Manufacturing	____ Lodging/Hotel	
____ Farming	____ Apartment/Condo. Mgmt.	
____ Wire/Cable Contractor	____ Other/Specify	

Is this your first purchase of a RITRON product? ☐ YES ☐ NO

If NO, is this purchase an: ☐ Add-on ☐ Replacement

If add-on or replacement, specify existing brand(s) – please list all: _____

How many handhelds will be used in your system? _____

Please send RITRON Product Literature on:

- ☐ JOBCOM &/or PATRIOT Handheld Radios
☐ RITRON Mobile Radios
☐ RITRON Repeater Systems
☐ RITRON Trunking Radio Systems

RITRON, INC.[®]

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PH: 317-846-1201 • FAX: 317-846-4978 • Web: www.ritron.com • E-mail: ritron@ritron.com



Place
stamp
here.

Tape
here.

Attn: Warranty Registration
P.O. Box 1998
Carmel, IN 46082-1998

Tape
here.

*Fold along dotted lines, seal with tape, and apply proper postage to mail your Warranty Registration;
OR, you can FAX this form to **RITRON** at 1-800-251-R-FAX (1-800-251-7329) (Local FAX to 317-846-4978).*